

Title (en)
METHOD FOR PRODUCING A SEMI-FINISHED PART AND A WORKPIECE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES HALBZEUGS UND EINES WERKSTÜCKS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN DEMI-PRODUIT ET D'UNE PIÈCE À USINER

Publication
EP 3482854 B1 20200812 (DE)

Application
EP 18204322 A 20181105

Priority
DE 102017126537 A 20171113

Abstract (en)
[origin: US2019143411A1] A method for manufacturing a three-dimensional semi-finished product comprises the steps of applying a first raw material powder to a carrier, applying a second raw material powder to the carrier, selectively irradiating the first raw material powder applied to the carrier with electromagnetic radiation or particle radiation, in order to manufacture a workpiece produced from the first raw material powder on the carrier by a generative layer construction method, and selectively irradiating the second raw material powder applied to the carrier with electromagnetic radiation or particle radiation, in order to manufacture a support element produced from the second raw material powder on the carrier by a generative layer construction method, wherein the support element produced from the second raw material powder has a higher thermal conductivity than the workpiece produced from the first raw material powder and wherein the support element dissipates heat introduced during the irradiation of the first and the second raw material powder.

IPC 8 full level
B22F 3/105 (2006.01); **B29C 64/153** (2017.01); **B29C 64/40** (2017.01); **B33Y 10/00** (2015.01); **B33Y 70/00** (2020.01)

CPC (source: EP US)
B22F 10/28 (2021.01 - EP US); **B22F 10/43** (2021.01 - EP US); **B22F 10/66** (2021.01 - EP US); **B29C 64/153** (2017.07 - EP US); **B29C 64/40** (2017.07 - EP US); **B33Y 10/00** (2014.12 - EP); **B33Y 40/20** (2020.01 - EP US); **B33Y 70/00** (2014.12 - EP US); **B22F 10/36** (2021.01 - EP US); **B22F 2301/205** (2013.01 - US); **B22F 2302/105** (2013.01 - US); **B23K 26/342** (2015.10 - US); **B33Y 10/00** (2014.12 - US); **B33Y 30/00** (2014.12 - US); **B33Y 50/02** (2014.12 - US); **B33Y 80/00** (2014.12 - US); **Y02P 10/25** (2015.11 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3482854 A1 20190515; **EP 3482854 B1 20200812**; DE 102017126537 A1 20190516; US 11123798 B2 20210921; US 2019143411 A1 20190516

DOCDB simple family (application)
EP 18204322 A 20181105; DE 102017126537 A 20171113; US 201816189628 A 20181113